

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-4 (canceled)

5. (currently amended) A receiver, comprising:

a first antenna configured to receive wireless signals;

a second antenna configured to receive wireless signals;

a delay block coupled with the second antenna, the delay configured to delay the wireless signals received by the second antenna; and

a combiner configured to combine the wireless signals received by the first antenna and the delayed wireless signals received by the second antenna; and

a baseband circuit configured to process the combined wireless signals;

wherein the baseband circuit is configured to dynamically update the delay applied by the delay block and ~~The receiver of claim 4,~~ wherein the baseband circuit is configured to determine a delay spread for the wireless signals received by the first antenna and to dynamically update the delay applied by the delay block to the wireless signals received by the second antenna ~~[[base don]]~~ based on the delay spread determined for the wireless signals received by the first antenna.

6. (original) The receiver of claim 5, wherein the delay spread determined for the wireless signals received by the first antenna is the average delay spread.

7. (original) The receiver of claim 5, wherein the delay spread determined for the wireless signals received by the first antenna is the maximum delay spread.

8. (currently amended) The receiver of claim 5 [[4]], wherein the baseband circuit is configured to continually dynamically update the delay applied by the delay block.

9. (currently amended) The receiver of claim 5 [[4]], wherein the baseband circuit is configured to periodically dynamically update the delay applied by the delay block.

10. (currently amended) The receiver of claim 5 [[4]], wherein the baseband circuit is configured to non-periodically dynamically update the delay applied by the delay block.

11. (currently amended) The receiver of claim 5 [[1]], wherein the baseband circuit is configured to use maximum ratio combining to process the combined wireless signals.

12. (currently amended) The receiver of claim 5 [[1]], further comprising a plurality of antennas configured to receive wireless signals, and a plurality of delay blocks interfaced with the plurality of antennas, the plurality of delay blocks configured to delay the wireless signals received by the plurality of antennas.

Claims 13-16. (canceled)

17. A wireless communication system, comprising:
a transmitter configured to transmit wireless signals; and a receiver
comprising:
a first antenna configured to receive the wireless signals transmitted
by the transmitter,
a second antenna configured to receive the wireless signals transmitted by the
transmitter,
a delay block coupled with the second antenna, the delay configured to delay the
wireless signals received by the second antenna, and
a combiner configured to combine the wireless signals received by the first
antenna and the delayed wireless signals received by the second antenna, and
a baseband circuit configured to process the combined wireless signals;
wherein the baseband circuit is configured to dynamically update the delay
applied by the delay block, and ~~The wireless communication system of claim 16,~~ wherein the
baseband circuit is configured to determine a delay spread for the wireless signals received by
the first antenna and to dynamically update the delay applied by the delay block to the
wireless signals received by the second antenna based on the delay spread determined for the
wireless signals received by the first antenna.

18. (original) The wireless communication system of claim 17, wherein the delay spread
determined for the wireless signals received by the first antenna is the average delay spread.

19. (original) The wireless communication system of claim 17, wherein the delay spread
determined for the wireless signals received by the first antenna is the maximum delay
spread.

20. (currently amended) The wireless communication system of claim 17 [[16]], wherein the baseband circuit is configured to continually dynamically update the delay applied by the delay block.

21. (currently amended) The wireless communication system of claim 17 [[16]], wherein the baseband circuit is configured to periodically dynamically update the delay applied by the delay block.

22. (currently amended) The wireless communication system of claim 17 [[16]], wherein the baseband circuit is configured to non-periodically dynamically update the delay applied by the delay block.

23. (currently amended) The wireless communication system of claim 17 [[13]], wherein the baseband circuit is configured to use maximum ratio combining to process the combined wireless signals.

24. (currently amended) The wireless communication system of claim 17 [[24]], wherein the receiver further comprises a plurality of antennas configured to receive wireless signals, and a plurality of delay blocks interfaced with the plurality of antennas, the plurality of delay blocks configured to delay the wireless signals received by the plurality of antennas.

25. (currently amended) The wireless communication system of claim 17 [[13]], wherein the transmitter comprises a plurality of antennas.

Claims 26-29. (canceled)

30. A method for receiving wireless signals, comprising:
receiving a first wireless signal with a first antenna;
receiving a second wireless signal with a second antenna;
delaying the wireless signal received by the second antenna a certain amount; and
combining the wireless signal received by the first antenna and the delayed wireless
signal received by the second antenna;
processing the combined wireless signal;
dynamically updating the certain amount of delay; and
~~The method of claim 29, further comprising~~ determining a delay spread for the wireless
signals received by the first antenna and dynamically updating the certain amount of delay
applied to the wireless signals received by the second antenna based on the delay spread
determined for the wireless signals received by the first antenna.

31. (original) The method of claim 30, wherein the delay spread determined for the
wireless signals received by the first antenna is the average delay spread.

32. (original) The method of claim 30, wherein the delay spread determined for the
wireless signals received by the first antenna is the maximum delay spread.

33. (currently amended) The method of claim 30 ~~[[29]]~~, further comprising continually
dynamically updating the certain amount of delay.

34. (currently amended) The method of claim 30 ~~[[29]]~~, further comprising periodically
dynamically updating the certain amount of delay.

35. (currently amended) The method of claim 30 ~~[[29]]~~, further comprising non-
periodically dynamically updating the certain amount of delay.

36. (currently amended) The method of claim 30 [[26]], wherein processing the combined wireless signals comprises applying maximum ratio combining to the combined wireless signals.